CLASSIFICATION CONFIDENTIAL/SEC CENTRAL INTELLIGENCE AGE INFORMATION REP	ENUT REPORT NO I
COUNTRY USSR (Fatonia) SUBJECT Kohtla Järve Oil Shale Processing Plant	DATE DISTR.26 Dec 1952 NO OF PAGES 4
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Location	
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to the main route from Leningrad to Tallin. Win 1940, their tanks traversed this road from located approximately 40 miles west of Narva a east of Rakvere.	ed on a road which runs parallel then the Soviets invaded Estonia east to west. The plant is and about the same distance
Shale Mining 2. The oil shale processed at the plant was mined shafts ran directly under the plant. pit operations had been abandoned, and all the ground. I do not brown the processed at the plant.	in the immediate area. The
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lived there. The executive homes and the worker's barracks were about one half mile from the plant. We either walked or used our bicycles to travel between them. The office building see Enclosure (A) was a frame two-story building, very barn-like in appearance. Its dimensions were approximately 40'x180'. It was situated in a lower-lying area and its roof was level with the road. The restaurant was a one-story frame building slightly larger than the office building. Actually it was more of a community house. Movies and plays were shown there. It was open to everybody. The restaurant was on the south side of the building and was cafeteria style. Very few plant personnel

Highways

4. The highway was a two-lane dirt road. It was an experimental road impregnated with an oil from the plant, then rolled.

Plant

- 5. The plant itself was surrounded by an eight-foot 6 yelone chain-link fence. We entered the plant through the main gate, showed our passes to the watchman, and constructed of concrete with a flat roof. The waste gases obtained during the shale processing were used to move the generators. I never visited this build-
- 6. In each of the oil treatment buildings there were four distilling towers about 30-40 feet high. The shale was transported to the top of the buildings by a conveyor and dumped into the towers. It was so controlled that a certain amount of shale fell into the fire at the bottom and was used as fuel for the removal of the oil from the other shale. The fuel produced was led off in pipes to the reservoirs. These three buildings had four stories and were 60-80' high. The walls were built of heavy stone and each story was supported by heavy steel beams. They were rather old fashioned in appearance although built about 1920. Building I-1 (See Enclosure (A) contained two cyclindrical open vats, about 12' in the oils in these tanks were treated with sodium hydroxide for reasons unknown to me.

 The outsing their 1940-41 occupation.

Products

- 7. I would estimate the plant had 400-500 production workers. There were five female technicians in the production control laboratory and five chemists in the research lab. These facilities were located in Building I-2. The crude produced could be fractioned to gasoline boiling 400-6067-55; petroleum ether builing 60-12007-105; kerosene boiling 120-1807-705; take and residuals-15%. The kerosene was subjected to cracking in Building H see Enclos-buildings.
- 8. The oil produced was not composed of saturated hydrocarbons; a great part of it was phenolic in origin. The emphasis was phaced on kerosene /Boiling 120°. 180°C/. The gascline produced was definitely of a much lower quality than imported gaspline which consisted for the most part of saturated hydrocarbons. Combustion was not complete since the gasoline contained sulphur and gave off SO2 fumes. There were no foreign elements present other than sulphur. The best gasoline produced was about 70 octane.
- 9. All the products were packed into drums of about 50-60 gallon capacity. There was a small engine in the yard to shift cars. I do not know whether there was a railroad siding or whether products were trucked to the railroad station.

Wartime Status

10. I have heard that the plant was damaged by the Germans when they retreated but that it has been rebuilt and expanded by the Soviets. I believe that production could be increased four-fold from the highest production under the

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Estonian republic by the introduction of better refining techniques. I have no figures, however, on actual Estonian production.

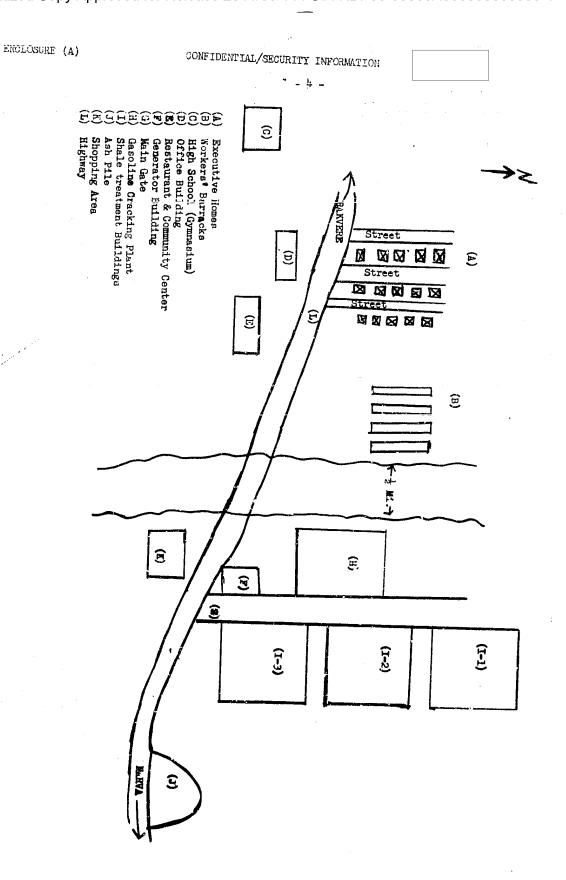
11. The most outstanding land mark of the plant was the huge ash pile See Enclosure (A) which was 500-600 feet high and would be visible from either the air or sea.

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PNGLOSURE (A): Rough sketch of Kohtla Järke Shale Oil Processing Plant.

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